

Title (en)

METHOD FOR SENDING DOWNLINK DATA, METHOD FOR RECEIVING DOWNLINK DATA, BASE STATION, AND USER TERMINAL

Title (de)

VERFAHREN ZUM SENDEN VON DOWNLINK-DATEN, VERFAHREN ZUM EMPFANGEN VON DOWNLINK-DATEN, BASISSTATION UND BENUTZERENDGERÄT

Title (fr)

PROCÉDÉ POUR ENVOYER DES DONNÉES DE LIAISON DESCENDANTE, PROCÉDÉ DE RÉCEPTION DE DONNÉES DE LIAISON DESCENDANTE, STATION DE BASE ET TERMINAL UTILISATEUR

Publication

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Application

**EP 17169513 A 20121203**

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Abstract (en)

Embodiments of the present invention provide a method for sending downlink data, a method for receiving downlink data, a base station, and a user terminal. The sending method includes: modulating first downlink data into a first downlink signal by using a DFT-S-OFDM modulation mode; modulating second downlink data into a second downlink signal by using an OFDM modulation mode; and forming a downlink transmit signal from the first downlink signal and the second downlink signal in a multiplexing manner, and sending the downlink transmit signal to a user terminal. The base station includes: a first generation module, a second generation module, and a first sending module. In the technical solutions of the present invention, downlink data is sent by using two modulation modes: DFT-S-OFDM and OFDM, thereby meeting requirements of different downlink data on EVM indexes, solving the problem that a data rate of the downlink data fails to be improved because of a limitation of the characteristics of OFDM, and improving the data rate of the downlink data.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [I] EP 1775901 A1 20070418 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [I] US 2007291635 A1 20071220 - YANG WEIDONG [US], et al

Cited by

US11716711B2; WO2022192810A1

Designated contracting state (EPC)

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